#### Construction Materials and Excavating

(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	   Source for roadfill	Source for sand	Source for gravel	   Source for topsoil	
AcD:	   Limitation	   Limitation	Limitation	   Limitation	   Limitation
Aguilita	  Not limited   	Very limited  -excess fines  (thickest layer)  -excess fines	Very limited  ~excess fines   (bottom layer)  ~excess fines	  very limited  ~excess lime   (very limited  ~slope	  Limited  ~slope   (limited)  ~too clayey
		(bottom layer)   	(thickest layer)     	(limited)  ~small stones   (slightly limited) 	(moderately limited)  ~cutbanks cave   (slightly limited) 
AcE:	İ	İ	İ	İ	İ
Aguilita	Very limited  ~slope   (very limited)   	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~excess lime   (very limited  ~slope   (very limited)  ~small stones   (slightly limited)	Very limited  ~slope   (very limited)  ~too clayey   (moderately limited)  ~cutbanks cave   (slightly limited)
Ag: Aguirre	  very limited  ~shrink-swell  (very limited)  ~low strength  (very limited)  ~wetness  (very limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	   Very limited   ~excess sodium   (very limited)   ~wetness   (very limited)   ~too clayey   (very limited)	  Very limited  ~wetness   (very limited)  ~cutbanks cave   (very limited)  ~too clayey   (very limited)
AmB:	 	] 		 	
Amelia	Very limited  ~low strength   (very limited)  ~shrink-swell   (moderately limited)	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Possible source  ~excess fines   (thickest layer)  ~possible source   (bottom layer)	Very limited  ~area reclaim   (very limited)  ~too clayey   (very limited)  ~small stones   (limited)	Very limited  ~cutbanks cave   (very limited)  ~too clayey   (moderately limited)
Maguayo	  Very limited  ~low strength   (very limited)  ~shrink-swell	Very limited -excess fines (thickest layer) -excess fines	  Limited  ~excess fines   (thickest layer)  ~excess fines	(limited)  ~too clayey   (limited)  ~excess lime	  Very limited  ~cutbanks cave   (very limited)  ~too clayey

| (moderately limited) | (bottom layer) | (bottom layer) | (slightly limited) | (moderately limited) |

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	   Limitation 	   Limitation 	   Limitation 	   Limitation 	   Limitation 
AmC2: Amelia	  Very limited  ~low strength   (very limited)  ~shrink-swell   (moderately limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Possible source   rexcess fines   (thickest layer)   ressible source   (bottom layer)	  Very limited  ~area reclaim   (very limited)  ~too clayey   (very limited)  ~small stones   (limited)	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (moderately limited  ~slope   (slightly limited)
Maguayo	  Very limited  ~low strength   (very limited)  ~shrink-swell   (moderately limited)	Very limited  -excess fines  (thickest layer)  -excess fines  (bottom layer)	Limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Limited  -too clayey   (limited)  -excess lime   (slightly limited)  -slope   (slightly limited)	Very limited
Ao: Amelia	  Very limited  ~low strength   (very limited)  ~shrink-swell   (moderately limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Possible source   rexcess fines   (thickest layer)   rpossible source   (bottom layer)	Very limited  ~area reclaim  (very limited)  ~too clayey  (very limited)  ~small stones  (limited)	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (moderately limited
AsB: Bahia	  Not limited       	  Possible source  ~excess fines   (bottom layer)  ~possible source   (thickest layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~too sandy   (very limited) 	  Very limited  ~cutbanks cave   (very limited) 
Ca: Cartagena	  Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~excess salts   (very limited)  ~too clayey   (very limited)  ~excess sodium	  Very limited  ~cutbanks cave   (very limited)  ~wetness   (limited)  ~too clayey

Map symbol and soil name	   Source for roadfill	   Source for sand	Source for gravel	   Source for topsoil	Shallow excavations
	   Limitation 	   Limitation 	Limitation	   Limitation 	Limitation
Cc: Cartagena variant	  Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~too clayey   (very limited)   	  Very limited  ~cutbanks cave   (very limited)  ~wetness   (limited)  ~too clayey   (limited)
Co: Coastal beach	  Not rated	  Not rated 	  Not rated	  Not rated	  Not rated
DeC: Descalabrado	  Very limited  ~depth to bedrock   (very limited) 	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~depth to bedrock   (very limited)  ~too clayey   (very limited)  ~small stones   (very limited)	  Very limited  ~hard bedrock <40"   (very limited)  ~too clayey   (moderately limited)  ~cutbanks cave   (slightly limited)
DeD: Descalabrado	  Very limited  ~depth to bedrock   (very limited)  ~slope   (slightly limited)	Very limited  -excess fines (thickest layer)  -excess fines (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited	  Very limited  ~hard bedrock <40"   (very limited)  ~slope   (very limited)  ~too clayey   (moderately limited)
DeF: Descalabrado	  Very limited  ~depth to bedrock   (very limited)  ~slope   (very limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~depth to bedrock   (very limited)  ~slope   (very limited)  ~small stones   (very limited)	  Very limited  ~hard bedrock <40"   (very limited)  ~slope   (very limited)  ~too clayey   (moderately limited)

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Fe:	 	 		 	
Fe	Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~excess sodium   (very limited)  ~excess salts   (very limited)  ~too clayey   (very limited)	Very limited  ~cutbanks cave   (very limited)  ~too clayey   (limited)  ~wetness   (slightly limited)
FrA:		 		 	i
Fraternidad	Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~too clayey   (very limited)  ~small stones   (slightly limited)	Very limited  ~cutbanks cave   (very limited)  ~too clayey   (limited)
FrB:					İ
Fraternidad	Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~too clayey   (very limited)  ~small stones   (slightly limited)	Very limited  ~cutbanks cave   (very limited)  ~too clayey   (limited)
Ft:	į			į	į
Fraternidad	Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~too clayey   (very limited) 	Very limited  ~cutbanks cave   (very limited)  ~too clayey   (limited)
FvA:	İ	İ	İ	İ	İ
Fraternidad	Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~too clayey   (very limited)  ~small stones   (slightly limited)	Very limited  ~cutbanks cave   (very limited)  ~too clayey   (limited)

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	   Limitation 	Limitation	Limitation	Limitation
FvB: Fraternidad	  Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)	Very limited  -excess fines (thickest layer)  -excess fines (bottom layer)	Very limited   rexcess fines   (bottom layer)   rexcess fines   (thickest layer)	  Very limited  ~too clayey   (very limited)  ~small stones   (limited)	  Very limited  ~cutbanks cave   (very limited)  ~too clayey   (limited)
Gc: Guanica	  Very limited  ~shrink-swell   (very limited)  ~low strength   (very limited)  ~wetness   (very limited)	  Very limited  ~excess fines  (thickest layer)  ~excess fines  (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited   -excess sodium   (very limited)   -wetness   (very limited)   -too clayey   (very limited)	Very limited
Gf: Guayabo	  Not limited   	  Probable source  ~possible source   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~too sandy   (very limited) 	  Very limited  ~cutbanks cave   (very limited)
GuD: Guayama	  Very limited  ~depth to bedrock   (very limited)  ~low strength   (very limited)  ~shrink-swell   (moderately limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited   ~excess fines   (bottom layer)   ~excess fines   (thickest layer)	Very limited   ~depth to bedrock   (very limited)   ~small stones   (very limited)   ~too clayey   (limited)	Very limited   ~hard bedrock <40"   (very limited)   ~slope   (limited)   ~cutbanks cave   (slightly limited)
GuF: Guayama	Very limited  -depth to bedrock   (very limited)  -slope   (very limited)  -low strength   (very limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	   Very limited   ~depth to bedrock   (very limited)   ~slope   (very limited)   ~too clayey   (limited)	Very limited   ~hard bedrock <40"   (very limited)   ~slope   (very limited)   ~cutbanks cave   (slightly limited)

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
 JaB:	Limitation	   Limitation 	Limitation	Limitation	Limitation
Jacana	Very limited  ~low strength   (very limited)	Very limited  ~excess fines   (thickest layer)	Very limited  ~excess fines   (bottom layer)	Very limited  ~too clayey   (very limited)	Limited  ~too clayey   (limited)
	<pre> ~depth to bedrock   (very limited)  ~shrink-swell   (slightly limited)</pre>	~excess fines   (bottom layer)   	<pre> ~excess fines   (thickest layer)    </pre>	<pre> ~depth to bedrock   (very limited)    </pre>	<pre> ~soft bedrock &lt;40"   (moderately limited  ~cutbanks cave   (slightly limited)</pre>
JaC: Jacana	Very limited   ~low strength   (very limited)   ~depth to bedrock   (very limited)   ~shrink-swell   (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited   ~excess fines   (bottom layer)   ~excess fines   (thickest layer)	Very limited   ~too clayey   (very limited)   ~depth to bedrock   (very limited)   ~slope   (slightly limited)	Limited  ~too clayey  (limited)  ~soft bedrock <40"  (moderately limited  ~cutbanks cave  (slightly limited)
JaC2: Jacana	  Very limited  ~depth to bedrock	Very limited ~excess fines	  Very limited  ~excess fines	  Very limited  ~too clayey	  Limited  ~too clayey
	(very limited)  ~shrink-swell   (slightly limited) 	(thickest layer)  -excess fines   (bottom layer) 	(bottom layer)  ~excess fines   (thickest layer) 	<pre>(very limited)  ~depth to bedrock (very limited)  ~slope (slightly limited)</pre>	(limited)  ~soft bedrock <40"   (moderately limited  ~cutbanks cave   (slightly limited)
JaD2:	İ		j		
Jacana	Very limited  ~low strength   (very limited)  ~depth to bedrock   (very limited)  ~shrink-swell   (slightly limited)	Very limited <pre>~excess fines (thickest layer) ~excess fines (bottom layer)</pre>	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~depth to bedrock   (very limited)  ~slope   (very limited)  ~too clayey   (limited)	Very limited  ~soft bedrock <20"   (very limited)  ~slope   (very limited)  ~cutbanks cave   (slightly limited)
JcB:			İ		
Jacana	Very limited  ~low strength   (very limited)  ~depth to bedrock   (very limited)  ~shrink-swell   (moderately limited)	Very limited  -excess fines  (thickest layer)  -excess fines  (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~too clayey   (very limited)  ~depth to bedrock   (very limited)	Limited  ~too clayey   (limited)  ~soft bedrock <40"   (moderately limited  ~cutbanks cave   (slightly limited)

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	   Source for topsoil	   Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
  JcC:   Jacana	Very limited ~low strength	Very limited ~excess fines	    Very limited  ~excess fines	  Very limited  ~too clayey	  Limited  ~too clayey
	<pre>(very limited) ~depth to bedrock (very limited) ~shrink-swell (slightly limited)</pre>	<pre>(thickest layer) ~excess fines (bottom layer)</pre>	(bottom layer)  -excess fines   (thickest layer)   	<pre>(very limited) ~depth to bedrock (very limited)  ~slope   (slightly limited)</pre>	(limited)  ~soft bedrock <40"     (moderately limited)    ~cutbanks cave     (slightly limited)
Lr:   Limestone rock land	Not rated	Not rated	  Not rated	Not rated	  Not rated
MaD2:   Mariana	Very limited	Very limited	    Very limited	    Very limited	    Very limited
Mai Talia	<pre>very limited ~low strength   (very limited) ~depth to bedrock   (moderately limited) ~shrink-swell   (slightly limited)</pre>	~excess fines (thickest layer) ~excess fines (bottom layer)	-excess fines   (bottom layer)  -excess fines   (thickest layer)	<pre> very limited   ~too clayey     (very limited)   ~slope     (very limited)   ~too acid     (limited)</pre>	-slope
MaE2:	Transa limitad		 	 	
Mariana  	Very limited ~low strength (very limited) ~slope (very limited) ~depth to bedrock (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited  -excess fines  (bottom layer)  -excess fines  (thickest layer)	Very limited <pre> ~slope   (very limited)  ~too clayey   (very limited)  ~too acid   (limited)</pre>	Very limited
, -	Slightly limited ~low strength (slightly limited)	Very limited  -excess fines (thickest layer)  -excess fines (bottom layer)	Very limited  -excess fines (bottom layer)  -excess fines (thickest layer)	Limited  ~too acid   (limited)	Moderately limited

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
PaB: Palmarejo	  Very limited  ~low strength   (very limited)	  Very limited  ~excess fines   (thickest layer)  ~excess fines	  Very limited  ~excess fines   (bottom layer)  ~excess fines	    Very limited  ~too clayey   (very limited)  ~too acid	  Moderately limited  ~too clayey   (moderately limited  ~cutbanks cave
		(bottom layer)	(thickest layer)	(limited)	(slightly limited)
PaC2:		İ		İ	İ
Palmarejo	Slightly limited  ~low strength   (slightly limited) 	Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~too clayey   (very limited)  ~too acid   (limited)  ~slope   (slightly limited)	Moderately limited  ~too clayey   (moderately limited  ~cutbanks cave   (slightly limited)  ~slope   (slightly limited)
PcB:	 			! !	i
Poncena	Very limited  ~low strength   (very limited)  ~shrink-swell   (very limited)	Very limited  -excess fines  (thickest layer)  -excess fines  (bottom layer)	Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited  ~too clayey   (very limited) 	Very limited  ~cutbanks cave   (very limited)  ~too clayey   (moderately limited
PcC2:	 	 	-	¦	}
Poncena	Very limited  -low strength   (very limited)  -shrink-swell   (limited)	Very limited  -excess fines (thickest layer)  -excess fines (bottom layer)	Very limited   ~excess fines   (bottom layer)   ~excess fines   (thickest layer)	  very limited  ~too clayey   (very limited)  ~slope   (slightly limited) 	Very limited
PoA: Pozo blanco	    Not limited 	    Very limited  ~excess fines	    Very limited  ~excess fines	  -  Limited  ~excess lime	    Slightly limited  ~cutbanks cave
		(thickest layer) -excess fines (bottom layer)	(bottom layer)  ~excess fines   (thickest layer)	(limited)  ~too sandy   (slightly limited)	(slightly limited)   

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	   Limitation 	Limitation	Limitation	Limitation
PzB: Pozo blanco	  Not limited     	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	Very limited   rexcess fines   (bottom layer)   rexcess fines   (thickest layer)	  Limited  ~excess lime   (limited)  ~too sandy   (slightly limited)	Slightly limited  ~cutbanks cave   (slightly limited)  ~too clayey   (slightly limited)
PzC: Pozo blanco	  Not limited   	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Limited  ~excess lime   (limited)  ~too sandy   (slightly limited)  ~slope   (slightly limited)	Slightly limited  -cutbanks cave   (slightly limited)  -too clayey   (slightly limited)  -slope   (slightly limited)
PzD: Pozo blanco	  Slightly limited  ~slope   (slightly limited) 	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~slope   (very limited)  ~excess lime   (limited)  ~too sandy   (slightly limited)	  Very limited  ~slope   (very limited)  ~cutbanks cave   (slightly limited)
San anton	  Slightly limited  ~low strength   (slightly limited)   	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Limited  ~too clayey   (limited)  ~small stones   (slightly limited)	Moderately limited   ~flooding   (moderately limited   ~cutbanks cave   (slightly limited)   ~too clayey   (slightly limited)
Sc: San anton	  Very limited  ~low strength   (very limited) 	   Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Limited  ~too clayey   (limited)  ~small stones   (slightly limited) 	Moderately limited   ~flooding   (moderately limited   ~cutbanks cave   (slightly limited)   ~too clayey   (slightly limited)

Map symbol and soil name	   Source for roadfill	Source for sand	   Source for gravel	   Source for topsoil	   Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Se:   San anton variant    	           	Probable source ~excess fines (thickest layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited	Very limited
SgD:   San german    	  Very limited  ~depth to bedrock   (very limited)   	Very limited  -excess fines (thickest layer)  -excess fines (bottom layer)	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~depth to bedrock   (very limited)  ~excess lime   (very limited  ~small stones	Very limited
  SgF:   San german	  Very limited  ~depth to bedrock  (very limited)  ~slope  (very limited)	  Very limited  ~excess fines  (thickest layer)  ~excess fines  (bottom layer)	  Limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	(very limited)	(slightly limited)
SmE:   San german    	  very limited  ~slope   (very limited)  ~large stones   (slightly limited)	  Very limited  ~excess fines  (thickest layer)  ~excess fines  (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~excess lime   (very limited  ~slope   (very limited)  ~large stones >25%   (very limited)	  very limited  ~slope   (very limited)  ~cutbanks cave   (slightly limited)  ~large stones   (slightly limited)

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	   Source for topsoil	   Shallow excavations
	Limitation	   Limitation	Limitation	Limitation	   Limitation
Sn: Santa isabel	  Very limited  ~shrink-swell  (very limited)  ~low strength  (very limited)	  Very limited  ~excess fines  (thickest layer)  ~excess fines  (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~too clayey   (very limited) 	  Very limited  ~cutbanks cave  (very limited)  ~too clayey  (limited)  ~wetness  (slightly limited)
SoA: Sosa	  Not limited       	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines  (bottom layer)  ~excess fines  (thickest layer)	  Very limited  ~too clayey   (very limited)  ~dense layer   (limited)  ~too sandy   (moderately limited)	Limited  -dense layer  (limited)  -too clayey  (moderately limited)  -cutbanks cave  (slightly limited)
SsB: Sosa	  Not limited     	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Very limited  ~too clayey   (very limited)  ~dense layer   (limited)  ~too sandy   (moderately limited)	Limited  -dense layer  (limited)  -too clayey  (moderately limited)  -cutbanks cave  (slightly limited)
SsD2: Sosa	  Not limited     	  Very limited  ~excess fines   (thickest layer)  ~excess fines   (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	  Limited  ~dense layer   (limited)  ~too clayey   (limited)  ~too sandy   (moderately limited)	Limited  -dense layer   (limited)  -too clayey   (moderately limited)  -cutbanks cave   (slightly limited)

   Map symbol and soil name	Source for roadfill	Source for sand	   Source for gravel	   Source for topsoil	   Shallow excavations
   	   Limitation 	Limitation	   Limitation 	   Limitation 	   Limitation 
Tc:   Teresa     -  -  -	   Very limited   ~low strength   (very limited)   ~shrink-swell   (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	  Very limited  ~excess fines   (bottom layer)  ~excess fines   (thickest layer)	Very limited	Limited  -wetness  (limited)  -flooding  (moderately limited)  -too clayey  (moderately limited)
Tf:   Tidal flats   	Not rated	Not rated	  Not rated   	  Not rated   	  Not rated   
  Ts:   Tidal swamp    	    Not rated   	Not rated	    Not rated   	    Not rated   	    Not rated   
  Va:   Vayas          	 	Very limited  -excess fines (thickest layer)  -excess fines (bottom layer)	  Very limited  ~excess fines  (bottom layer)  ~excess fines  (thickest layer)	  Very limited  ~too clayey   (very limited) 	Limited
Vo:   Volcanic rock land 	  Not rated 	Not rated	  Not rated 	  Not rated 	  Not rated 
  W:   Water	  Not rated 	Not rated	    Not rated   	    Not rated   	    Not rated   